



AMP2093-05-1-3 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Suitable for broadband EMI/RFI, Lab, Comm. and EW applications
- Class AB linear LDMOS and GaN design
- Instantaneous wide bandwidth
- Suitable for all modulations standards
- Rack mounted system
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes
Operating Frequency Range (MHz)	200 - 500	500 - 1000	1000 - 3000	
Power Output (CW)	100 Watt \pm 1 dB			Full power into 2:1 load VSWR
Power Gain	50 dB \pm 2 dB			
Power Gain Flatness	3.0 dB p-p Max			Constant input power
Input / Output Return Loss	10 dB Min			Relative to 50 Ohm
Input Signal Types	CW AM: DOM 85%, 03-3KHz FM: 200KHz Deviation			
2-Tone Intermodulation (IMD)	30 dBc Typ			40dBm/Tone, Δ = 1MHz
Harmonics	20 dBc Typ			At rated output power
Non Harmonics Spurious	>60 dBc			
Operating Voltage	100 - 240 VAC			50 Hz \pm 3 Hz
Power Consumption	600 Watt Max			At rated Pout
Max Input Power	+8 dBm			Without damage
Load VSWR Protection	∞ : 1			

ENVIRONMENTAL CHARACTERISTICS

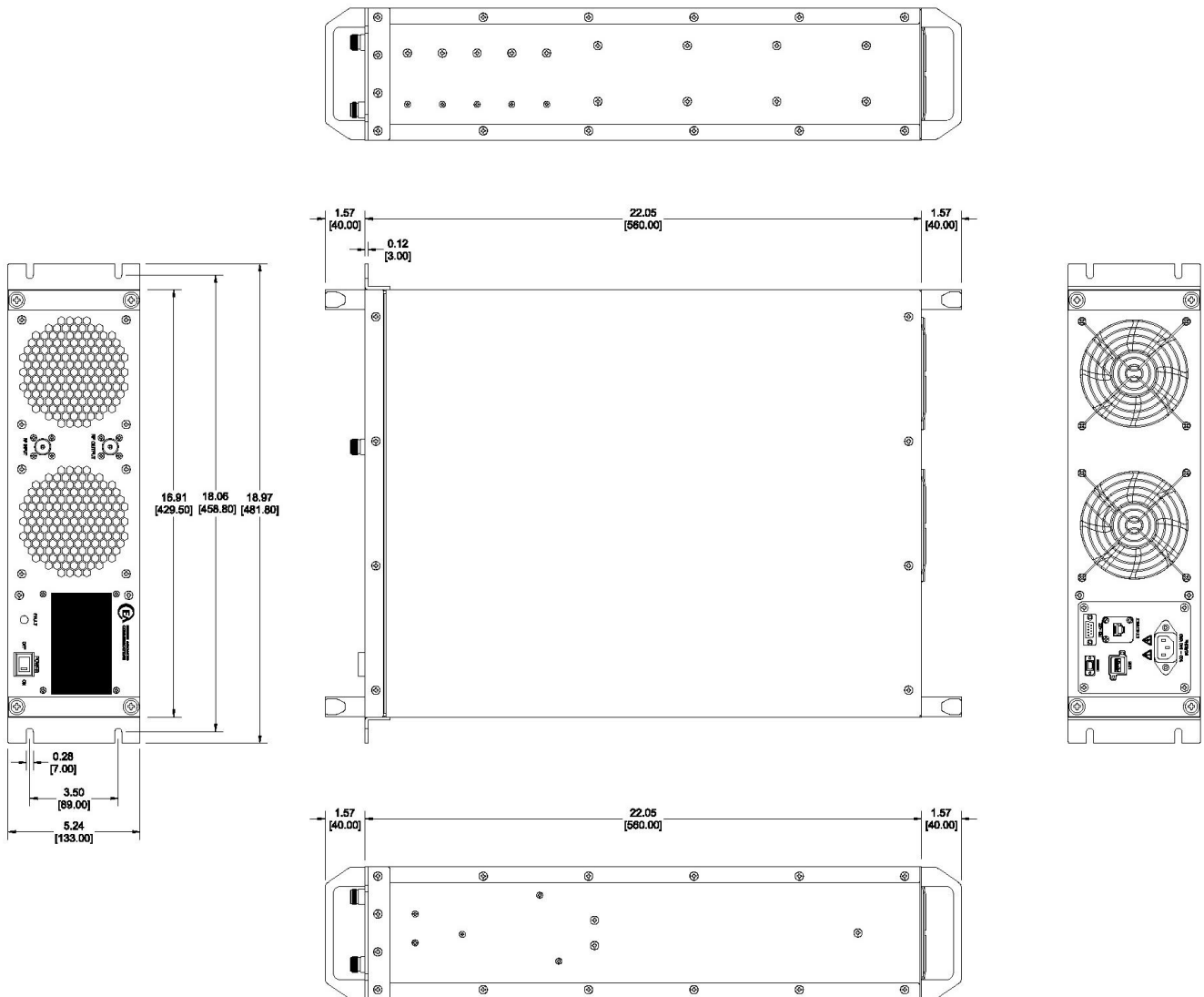
Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-20 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

MECHANICAL SPECIFICATIONS

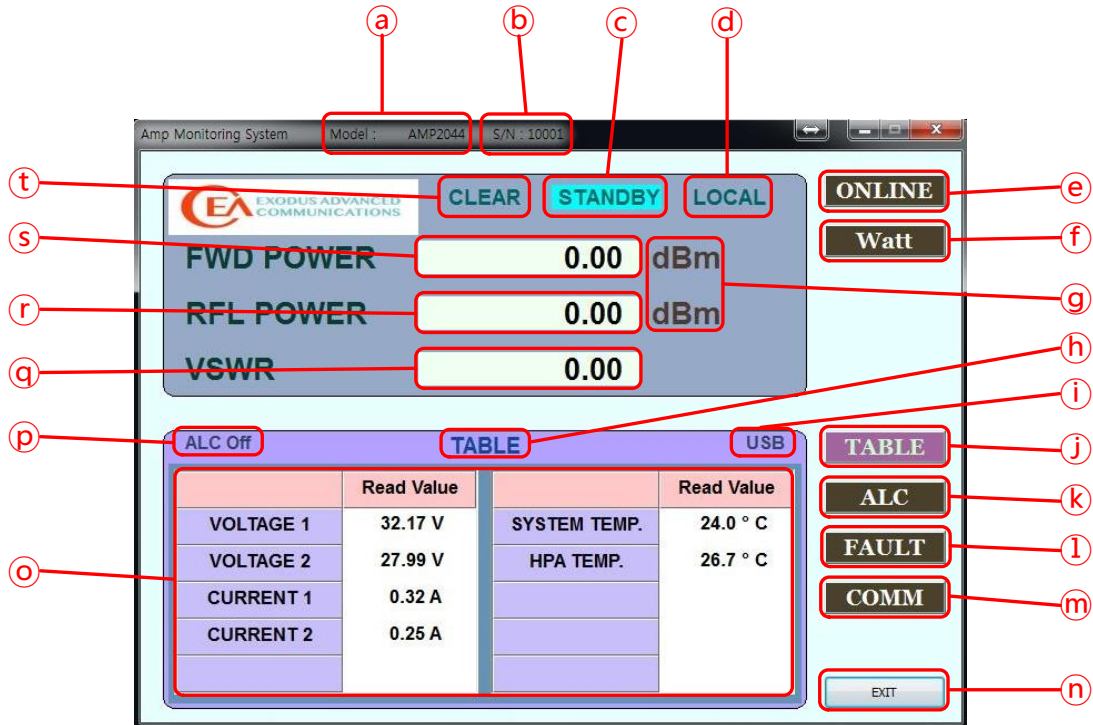
Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U - Without handles
Weight	15 kg. Max	
RF Connectors In / Out	Type-N Female	
AC Power / Interface Connector	MS 38999 Circular / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, GPIB Interface	Remote Bluetooth application

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OUTLINE DRAWING



CONTROLLER PRIMARY (MAIN) WINDOW



- a Model: Connected model number.
- b S/N: Serial number of the connected model.
- c STANDBY/ONLINE: Display system STANDBY/ONLINE status.
- d LOCAL/REMOTE: Display system LOCAL/REMOTE status, REMOTE mode is optional.
- e ONLINE/STANDBY: System ONLINE/STANDBY button.
- f Watt/dBm: Watt/dBm conversion button.
- g dBm/Watt: Display dBm/Watt status.
- h TABLE/ALE/FAULT/COMM: Display menu status.
- i RS232 (RS422)/USB/BLUETOOTH/ETHERNET : Display the communication mode.
- j TABLE: TABLE menu button.
- k ALC: ALC menu button.
- l FAULT: FAULT menu button.
- m COMM: COMM menu button.
- n EXIT: Button to exit the program.
- o Display status of the TABLE menu window.
- p ALC On/ALC Off: Display ALC operating status.
- q VSWR: Display VSWR value.
- r RFL POWER: Display RFL POWER value.
- s FWD POWER: Display FWD POWER value.
- t CLEAR/FALUT: Display CLEAR/FAULT status.